

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF MD 5 (LEONARDTOWN ROAD) AND GALLANT GREEN ROAD IN CHARLES COUNTY. A HAZARD IDENTIFICATION BEACON (HIB) WILL BE INSTALLED SOUTH OF GALLANT GREEN ROAD PRIOR TO THE NEW TRAFFIC SIGNAL. MD 5 IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION.

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA THREE-PHASE, FULLY TRAFFIC-ACTUATED MODE WITH EXCLUSIVE/FLASHING RED PHASING FOR SOUTHBOUND MD 5.

CONTROLLER REQUIREMENTS

INSTALL NEMA SIZE "S" BASE MOUNTED CABINET WITH ASC III CONTROLLER AND ASSOCIATED HARNESSSES. THE SHA SIGNAL SHOP WILL INSTALL ONE (1) VIDEO DETECTION INTERFACE; 1-8 CAMERAS, ONE (1) 4 CHANNEL DETECTOR AMPLIFIER, BATTERY BACK-UP AND ALL OTHER ASSOCIATED EQUIPMENT. INSTALL TYPE "G" POLE MOUNTED CABINET WITH A 2-CIRCUIT FLASHER FOR THE HAZARD IDENTIFICATION BEACON.

PHONE DROP

THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF SHA AT (410) 787-7635 TO ARRANGE FOR THE PHONE DROP LINE INSTALLATION. THE CONTRACTOR IS TO NOTIFY MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE AND PHONE NUMBER.

THE CONTACT PERSONS FOR DISTRICT #5 ARE AS FOLLOWS:

Ms. Kimberly Tran  
Assistant District Engineer - Traffic  
Phone: 410-841-1019

Mr. Mike Huber  
District Utility Engineer  
Phone: 410-841-1039

1 Mr. Joe Geckle  
Assistant District Engineer - Maintenance  
Phone: 410-841-1013

OFFICE OF TRAFFIC AND SAFETY:

1 Mr. Avijit Maji  
Chief, Traffic Operations Division  
Phone: 410-787-7630

Mr. Robert Snyder  
Assistant Division Chief, Traffic Operations  
410-787-7630

Mr. Edward Rodenhizer  
Chief, Signal Operations  
Phone: 410-787-7650

Mr. Eugene Bailey  
Chief, Sign Operations  
410-787-7670

The Power Company is:  
SMECO  
901 Dorcas Beach Road  
P.O. Box 37  
Prince Frederick, Maryland  
Phone: 410-535-4400

EQUIPMENT LIST 'A'

EQUIPMENT TO BE FURNISHED BY THE SHA.

ITEM NO	QUANTITY	DESCRIPTION
9000	1 EA	CONTROLLER CABINET TYPE 'S' WITH VIDEO DETECTION INTERFACE EQUIPMENT: 1-8 CAMERAS
9000	1 EA	UNINTERRUPTABLE POWER SUPPLY AND EQUIPMENT
9000	1 EA	ASC III CONTROLLER
9012	1 EA	2 CIRCUIT FLASHER
9037	1 EA	CABINET 'G' TYPE POLE MOUNT
9570	14 SF	SHEET ALUMINUM GROUND MOUNTED SIGN
		1 EA - R4-8b (24 IN. X 30 IN.)
		1 EA - R1-2 (36 IN. X 36 IN.)
1 9571	57 SF 69 SF	SHEET ALUMINUM MAST ARM/POLE MOUNTED SIGN

1 1 EA - M1-5(4) (78 IN. X 36 IN.)  
LEONARDTOWN RD, NORTH, MD 5, SOUTH

1 1 EA - M1-5(6) (24 IN. X 48 IN.)  
NORTH, MD 5, RIGHT ARROW

1 EA - R10-12(2)MOD (48 IN. X 36 IN.)

1 EA - D-3(1) (96 IN. X 16 IN.) - DUAL

1 EA - W3-3 (48 IN. X 48 IN.)

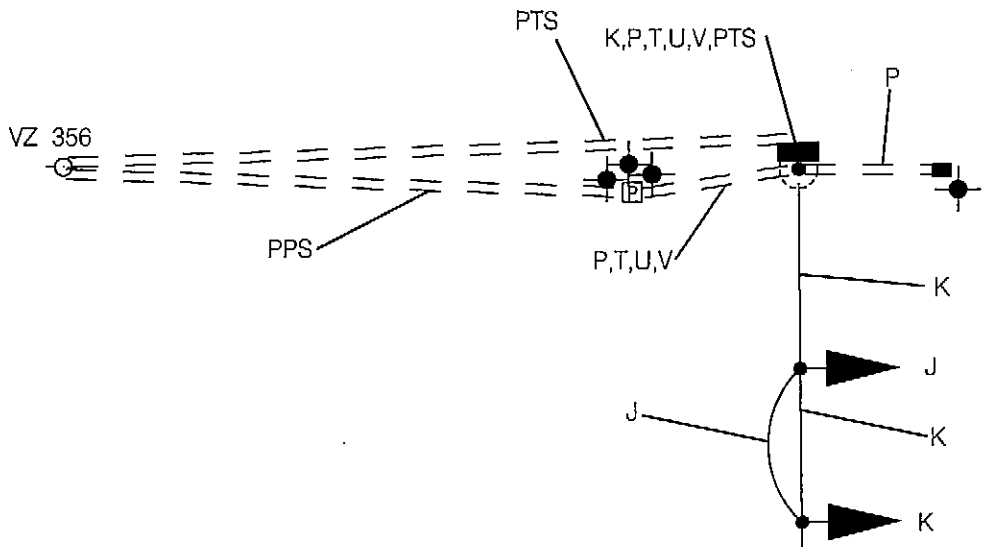
1 EA - D-3(1) (96 IN. X 16 IN.) F.Y.  
GALLANT GREEN RD

EQUIPMENT LIST 'C'

EQUIPMENT TO BE REMOVED AND RETURNED TO SHA.

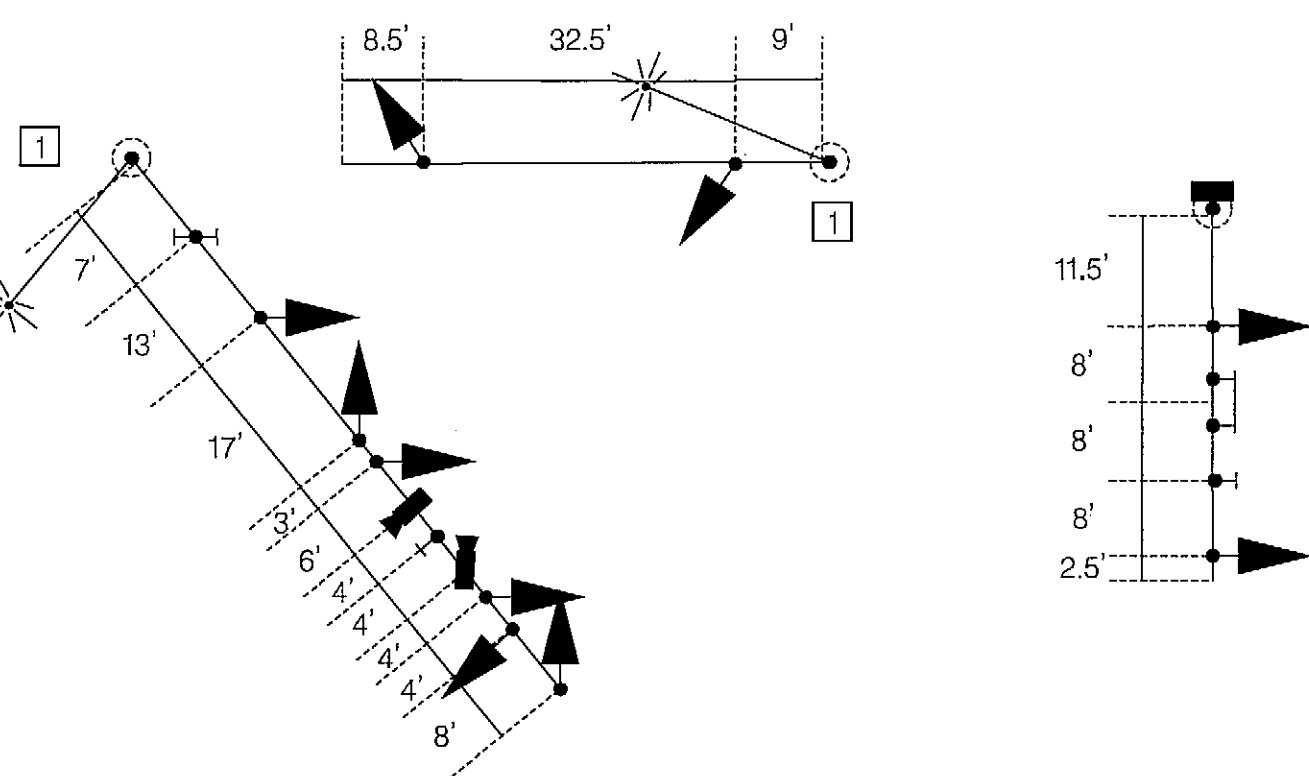
ITEM NO QUANTITY DESCRIPTION

NONE - ALL REMOVED EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR



PROPOSED SIGNAL EQUIPMENT DETAIL

NOT TO SCALE



EQUIPMENT LIST 'B'

EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE CONTRACTOR.

ITEM NO	QUANTITY	DESCRIPTION
1001	3 EA	MAINTENANCE OF TRAFFIC
2001	13 CY	CLASS 2 EXCAVATION
2002	5 CY	TEST PIT EXCAVATION
5002	285 LF	5 INCH HEAT APPLIED WHITE OR YELLOW PERMANENT PAVEMENT MARKINGS
5003	115 LF	REMOVAL OF EXISTING PERMANENT PAVEMENT LINE MARKINGS
5005	95 LF	24 INCH WHITE PREFORMED THERMOPLASTIC PAVEMENT MARKING LINES
6001	125 LF	STANDARD TYPE A COMBINATION CURB AND GUTTER 12 INCH GUTTER PAN 8 INCH DEPTH
1 8001	26 29 EA	12 INCH LED SIGNAL HEAD SECTION
1 8007	2 EA	ANY SIZE LIGHTING ARM ON SIGNAL POLE WITH 250-WATT HPS LAMP & LUMINAIRE
1 8009	1 EA	BREAKAWAY PEDESTAL POLE (ANY SIZE)
1 8011	1 EA	CONDUIT BEND IN EXISTING FOUNDATION BASE (ANY SIZE)
1 8012	2 1 EA	EMBEDDED METERED SERVICE PEDESTAL
1 8017	1 EA	MAST ARM POLE & 38 FT MAST ARM ANY 'T' DIMENSION
1 8018	1 2 EA	MAST ARM POLE & 50 FT MAST ARM ANY 'T' DIMENSION
8019	1 EA	MAST ARM POLE & 60 FT MAST ARM ANY 'T' DIMENSION
1 8020	1 EA	MAST ARM POLE & 70 FT MAST ARM ANY 'T' DIMENSION
8022	2 EA	NONINVASIVE DETECTOR (ANY LENGTH) LEAD-IN CABLE UP TO 1000'
8023	1 EA	REMOVE & DISPOSE OF EQUIPMENT (PER ASSIGNMENT)
8028	2 EA	VIDEO DETECTION CAMERA AND CABLE ANY LENGTH
8034	590 LF	ELECTRICAL CABLE - 2-CONDUCTOR (NO. 12 AWG) TYPE T/C
1 8036	653 510 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - BORED
1 8038	1,050 970 LF	UP TO 4 INCH SCHEDULE 80 RIGID PVC CONDUIT - TRENCHED
8039	50 LF	WOOD SIGN SUPPORTS UP TO 4 INCH X 6 INCH
1 8040	71 83 SF	INSTALL OVERHEAD OR GROUND MOUNTED SIGN (INCLUDING ALL HARDWARE)
1 8042	585 505 LF	NO. 6 AWG STRANDED BARE COPPER GROUND WIRE
1 8044	1 EA	ELECTRICAL UTILITY SERVICE EQUIPMENT 120/240 VOLTS 60 AMPS
1 8045	532 515 LF	ELECTRICAL CABLE 1-CONDUCTOR NO. 8 AWG-THHN/THWN
1 8046	9 8 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8051	1 EA	CUT, CLEAN, GALVANIZE AND CAP TRAFFIC SIGNAL STRUCTURE
8055	111 115 LF	ELECTRICAL CABLE - 5 CONDUCTOR (NO. 14 AWG)
1 8056	811 945 LF	ELECTRICAL CABLE - 7 CONDUCTOR (NO. 14 AWG)
8061	1 EA	INSTALL CONTROLLER AND CABINET - POLE MOUNT
8062	1 EA	INSTALL CONTROLLER AND CABINET - BASE MOUNT (ANY SIZE)
1 8063-A	1 EA	F & I LED OPTICALLY PROGRAMMABLE SIGNAL (3 SECTION R,Y,G)
1 8066-A	2 EA	F & I LED LUMINAIRES AND LAMPS

	1	2	3	4	5	6	7	8	9	10	11	
PHASE CHART	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(R) (Y) (G)	(Y) (Y) (Y)	(Y) (Y) (Y)	
PHASE 2	G	G	G	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
PHASE 2 CHANGE	Y	Y	Y	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
2 PHASE 3	R	R	R	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
2 PHASE 3 CHANGE	R	R	R	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
PHASE 4	R	R	R	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
PHASE 4 CHANGE	R	R	R	FL/R	FL/R	FL/R	R	R	R	FL/Y	FL/Y	
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	FL/Y	FL/Y	



STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 5 (LEONARDTOWN ROAD) AND  
GALLANT GREEN ROAD  
HUGHESVILLE, MARYLAND

GENERAL INFORMATION

SCALE	NONE	DATE	08/13/2012	CONTRACT NO.	XX6475185
DESIGNED BY	EMP OF STV	COUNTY	CHARLES		
DRAWN BY	EMP OF STV	LOGMILE	08000503.16		
CHECKED BY	MTS OF STV	TMS NO.	1168		
F.A.P. NO.		TOD NO.			
TS NO.	4832	DRAWING	SG-02	OF	02
		SHEET NO.	02	OF	02

